



ACRYLIC DTM ENAMEL SEMI-GLOSS V331

Features

- For light-to-moderate industrial, commercial and select residential use
- Excellent for metal, as well as wood, masonry, drywall and other surfaces
- Interior/Exterior use
- Resists flash rust on metal
- Excellent for all corrugated metal sheeting
- Can be used on galvanized and aluminum metal

Recommended For

Carbon Steel, Iron, Aluminum, Galvanized, Other Non-Ferrous Metals, Concrete, Masonry, Wood, Fibreglass, Drywall. Corotech® Acrylic DTM Enamel is designed for use in Food and Beverage Processing, Industrial Maintenance, General Metal Finishing / Fabrication, Chemical Processing.

General Description

Acrylic DTM Enamel is a tough waterborne acrylic enamel that fights rust on metal and provides a smooth, durable finish on wood, drywall and masonry substrates. A special inhibitor in the formula prevents flash rust when applied to ferrous metal, and the smooth dry film is UV and moisture resistant.

Limitations

- Do not apply if material, substrate or ambient temperature is below 10 °C (50 °F). The relative humidity should be below 90%.
- Do not apply if within 5 degrees of dew point or if rain is expected within 12 hours of application.
- Not for immersion service
- Not recommended for coating over Kynar® or similar finishes.

Product Information

| | | | | | | | | | | | | | | | | | | | | | |
|---|---|-----------------|------------------------------------|-------------|---------------|--------------|------------------|-----------|---------------|-----------|------------------|---|--|-------------------|---|-------|---------------------|----------------------------|----------------|--------|---------------|
| Colours — Standard: White (01) | Technical Data \diamond White | | | | | | | | | | | | | | | | | | | | |
| — Tint Bases: Pastel Base (85), Tint Base (86), Deep Base (87), Clear Base (88). Tint with Universal Colorants Only | <table border="1"> <tr> <td>Vehicle Type</td> <td colspan="2">Acrylic</td> </tr> <tr> <td>Pigment Type</td> <td colspan="2">Titanium Dioxide</td> </tr> <tr> <td>Volume Solids</td> <td colspan="2">42 ± 1.0%</td> </tr> <tr> <td>Coverage per 3.79 L at Recommended Film Thickness</td> <td colspan="2">27.9 – 32.5 sq. m. (300 – 350 sq. ft.)</td> </tr> <tr> <td rowspan="2">Recommended Film Thickness</td> <td>– Wet</td> <td>4.6 – 5.3 mils</td> </tr> <tr> <td>– Dry</td> <td>1.9 – 2.3 mils</td> </tr> </table> | | Vehicle Type | Acrylic | | Pigment Type | Titanium Dioxide | | Volume Solids | 42 ± 1.0% | | Coverage per 3.79 L at Recommended Film Thickness | 27.9 – 32.5 sq. m. (300 – 350 sq. ft.) | | Recommended Film Thickness | – Wet | 4.6 – 5.3 mils | – Dry | 1.9 – 2.3 mils | | |
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| — Special Colours: Contact your retailer. | Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure colour uniformity and minimize the disposal of excess paint. | | | | | | | | | | | | | | | | | | | | |
| Certifications & Qualifications : The products supported by this data sheet contain a maximum of 250 grams per litre VOC / VOS excluding water & exempt solvents. This product is compliant as an Industrial Maintenance Coating. Meets Performance Requirements of TT-P-1511 Meets Requirements for SSPC #24 Masters Painters Institute MPI # 153, 163 | <table border="1"> <tr> <td rowspan="2">Dry Time @ 25 °C (77 °F) @ 50% RH</td> <td>– Tack Free</td> <td>1 Hour</td> </tr> <tr> <td>– To Recoat</td> <td>4 Hours</td> </tr> </table> <p>High humidity and cool temperatures will result in longer dry, recoat and service times.</p> <table border="1"> <tr> <td>Dries By</td> <td colspan="2">Coalescence</td> </tr> <tr> <td>Viscosity</td> <td colspan="2">82 ± 4 KU</td> </tr> <tr> <td>Flash Point</td> <td colspan="2">18.6 °C (200 °F) or Greater (TT-P-141, Method 4293)</td> </tr> <tr> <td>Gloss / Sheen</td> <td colspan="2">Semi-Gloss (45 – 55 @ 60°)</td> </tr> </table> | | Dry Time @ 25 °C (77 °F) @ 50% RH | – Tack Free | 1 Hour | – To Recoat | 4 Hours | Dries By | Coalescence | | Viscosity | 82 ± 4 KU | | Flash Point | 18.6 °C (200 °F) or Greater (TT-P-141, Method 4293) | | Gloss / Sheen | Semi-Gloss (45 – 55 @ 60°) | | | |
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| Customer Information Centre: 1-800-361-5898, info@benjaminmoore.com , www.benjaminmoore.ca | <table border="1"> <tr> <td rowspan="2">Surface Temperature at Application</td> <td>– Min.</td> <td>10 °C (50 °F)</td> </tr> <tr> <td>– Max.</td> <td>32.2 °C (90 °F)</td> </tr> <tr> <td>Thin With</td> <td colspan="2">Water</td> </tr> <tr> <td>Clean Up Thinner</td> <td colspan="2">Warm, Soapy Water</td> </tr> <tr> <td>Weight Per 3.79 L</td> <td colspan="2">4.6 kg (10.5 lbs)</td> </tr> <tr> <td rowspan="2">Storage Temperature</td> <td>– Min.</td> <td>7.2 °C (45 °F)</td> </tr> <tr> <td>– Max.</td> <td>35 °C (95 °F)</td> </tr> </table> <p style="text-align: center;">Volatile Organic Compounds (VOC)</p> <p style="text-align: center;">196 Grams/Litre</p> | | Surface Temperature at Application | – Min. | 10 °C (50 °F) | – Max. | 32.2 °C (90 °F) | Thin With | Water | | Clean Up Thinner | Warm, Soapy Water | | Weight Per 3.79 L | 4.6 kg (10.5 lbs) | | Storage Temperature | – Min. | 7.2 °C (45 °F) | – Max. | 35 °C (95 °F) |
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\diamond Reported values are for White.

Acrylic DTM Enamel Semi-Gloss V331

Surface Preparation

Prior to painting any surface, remove all grease, dirt and other surface contamination by applying a solution of Corotech® Oil & Grease Emulsifier V600. Remove all remaining loose paint, rust and mill scale via Hand Tool Cleaning (SSPC-SP 2) or Power Tool cleaning (SSPC-SP 3). Fill holes and cracks and sand smooth. Glossy surfaces must be fully deglossed. Moderate to heavily rusted areas must be thoroughly prepared and active rust should be properly removed.

Ferrous Metal: Remove any active rusted areas according to the surface preparation instructions. Apply directly to properly prepared, ferrous metal surfaces. Additional protection can be attained by using a rust inhibitive primer. Apply one or two finish coats as needed.

For enhanced adhesion and durability, apply Corotech® Waterborne Bonding Primer V175 prior to top coating.

Non-Ferrous Metal (Galvanized & Aluminum): Galvanized steel normally comes from the mill chemically treated or passivated, to prevent white rusting or oxidation of the galvanized surface during the time it is being stored or shipped to the job site. Due to this, the surface must be thoroughly cleaned with Corotech® Oil & Grease Emulsifier V600 or solvent wiping in accordance with SSPC-SP 1 prior to coating. Apply one or two finish coats as needed.

For enhanced adhesion and durability, apply Corotech® Waterborne Bonding Primer V175 prior to top coating.

Wood Surfaces: Prime bare spots and new wood with a quality acrylic primer. Apply one or two finish coats as needed.

Plaster and Dry Wall: Prime new drywall and fully cured plaster with a quality acrylic primer. Apply one or two finish coats as needed.

Concrete Surfaces: Allow new concrete to age for a minimum of 30 days. New or old unpainted concrete should be etched with a muriatic acid solution and then rinsed thoroughly with water. Be sure to follow the manufacturer's instructions when mixing and using solution. (Protect skin and eyes by wearing rubber gloves and goggles.) Rinse surface thoroughly with clean water. Allow surface to dry completely before coating. Old painted concrete should be sanded. Prime with a quality acrylic primer. Apply one or two finish coats as needed.

Glossy Surfaces: Glossy surfaces must be deglossed to obtain a surface profile prior to coating. The preferred method is thoroughly sanding the surface area. Areas that cannot be properly deglossed should be primed with Corotech® Waterborne Bonding Primer V175 prior to finish coating.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by logging onto Health Canada @ <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/environmental-contaminants/lead/lead-information-package-some-commonly-asked-questions-about-lead-human-health.html>

Application

Mix the product thoroughly before application. The use of a low speed drill mixer is recommended.

Thin with Water only.

Airless Spray (Preferred Method): Tip range between .015 and .019. Total fluid output pressure at tip should not be less than 2400 psi.

Air Spray (Pressure Pot): DeVilbiss MBC or JGA gun, with 704 or 765 air cap and Fluid Tip E.

Brush: Synthetic Bristle only.

Roller: Short Nap Cover: Less than 12.7 mm (½").

NOTE: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner. Do not apply if material, substrate or ambient temperature is below 10 °C (50 °F). Relative humidity should be below 90%. Do not apply if within 5 degrees of dew point or if rain is expected within 12 hours of application.

| TEST DATA | |
|--|---|
| Flexibility (ASTM D1737) | Pass 3.2 mm (1/8") Mandrel |
| Dry Heat Resistance | 93.2 °C (200 °F) |
| Wet Heat Resistance | 65.6 °C (150 °F) |
| Adhesion (ASTM D3359) | Pass 5B |
| Salt Spray (ASTM B117) (2 Coats over V110; 1000 Hours) | Rust Breakthrough: 10 Rust Area: 0.01% |
| Abrasion Resistance (ASTM D4060) CS-17 Wheel, 1000 Cycles, 1000 g Load | 100 mg Loss |
| Accelerated Weathering (ASTM G53) 500 Hours | 90% Gloss Retention < 0.25 DE Colour Change (CMC) |

| CHEMICAL RESISTANCE GUIDE (NON-IMMERSION) | |
|---|-----------------|
| Fresh Water | Excellent |
| Salt Water | Good |
| Acids | Fair |
| Alkalis | Fair |
| Solvents | Not Recommended |
| Fuel | Not Recommended |
| Acidic Salt Solutions | Fair |
| Alkaline Salt Solutions | Fair |
| Neutral Salt Solutions | Good |

| SYSTEMS RECOMMENDATIONS | |
|---|--|
| COMPATIBLE PRIMERS & INTERMEDIATES | |
| V132, V142, V155, V150, V160, V110, V175 and Other Acrylic and Alkyd Primers | |
| For substrates other than listed above, or for usage in severe environmental conditions, please consult with Corotech® Technical Service. | |

Clean Up

Clean with warm, soapy water.

Environmental Health & Safety Information

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Keep container closed when not in use. In case of spillage, absorb with inert material and dispose of in accordance with local regulations. Wash thoroughly after handling. Refer to Safety Data Sheet for additional health and safety information.

This document represents hazards of the product referenced above. Refer to the individual Safety Data Sheet for hazards of the specific product you will be using.

**KEEP OUT OF REACH OF CHILDREN
FOR PROFESSIONAL USE ONLY**

KEEP FROM FREEZING

**Refer to Safety Data Sheet for
additional health and safety information.**